

## **CLAIMS**

1	1.	A printing system, comprising:		
2		a laser configured to produce a printing beam for printing a code on a		
3	produ	product, the laser being at most a 25 Watt laser;		
4		a housing including a printing beam exit member through which the		
5	printi	ng beam exits the housing; and		
6		an optics assembly within the housing, the optics assembly focussing		
7 .	the pr	inting beam on a product which is adjacent to the housing.		
1	2.	The printing system of claim 1, wherein the printing beam exit		
2	meml	member is movable relative to the housing;		
1	3.	The printing system of claim 1, wherein a bearing couples the printing		
2	beam	exit member to the housing.		
1	4.	The printing system of claim 3, wherein the bearing has an axis of		
2	rotati	on and the printing beam passes through the bearing along the axis of		
3	rotati			
1	5.	The printing system of claim 1, further comprising:		
2		a negative lens for expanding the printing beam and a positive lens for		
3	focus	ssing the printing beam.		
1	6.	The printing system of claim 1, further comprising:		
2		a collimating lens positioned between the negative lens and the		
3	posit	nositive lens.		

1	7.	The printing system of claim 1, further comprising:		
2 .		electronics for correcting the non-linearity of one or more lenses		
3	throug	through which the printing beam passes.		
1	8.	The printing system of claim 1, further comprising:		
2		a print zone light source for producing a print zone beam for defining a		
3	print z	one within which the code is printed, the print zone beam exiting the		
4	housin	housing through the printing beam exit member.		
1	9.	The printing system of claim 1, further comprising:		
2		one or more mirrors for reflecting the printing beam in a desired		
3	directi	direction.		
1	10.	The printing system of claim 9, wherein at least one of the one or more		
2	mirror	s are connected to a motor configured to move the mirrors so as to		
3	contro	control the direction that the printing beam is reflected.		
1	11.	The printing system of claim 10, further comprising:		
2		electronics for controlling the motors so as to steer the printing beam		
3	from c	from one location to another.		
1	12.	The printing system of claim 1, wherein the laser is an air cooled laser		
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1	13.	The printing system of claim 1, wherein the laser is at most a 20 Watt		
2	laser.			

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1	14.	The printing system of claim 1, wherein the laser is at most a 15 Watt		
2	laser.	•		
1	15.	The printing system of claim 1, wherein the printing system weighs		
2	less th	less than 25 pounds.		
1	16.	The printing system of claim 1, wherein the printing system weighs		
2	less th	less than 22 pounds.		
1	17.	The printing system of claim 1, wherein the printing system includes a		
2	housi	housing having a volume of less than 1200 cubic inches.		
1	18.	The printing system of claim 1, wherein the printing system includes a		
2	housi	housing having a volume of less than 600 cubic inches.		